AMENDMENTS TO THE CLAIMS

(Currently Amended) An antenna comprising:
 an antenna element that is formed inhaving a substantially spherical shape;
 a conductive rod that penetrates through the antenna element and that is electrically eonducted to the antenna element; and

a conductive circular plate that is disposed on a base end side of the conductive rod so as to be, substantially orthogonal to the conductive rod, wherein the antenna has a feeding point is provided at a portion located where the base end side of the conductive rod and the conductive circular plate intersect each other.

- 2. (Currently Amended) The antenna according to claim 1, wherein the antenna element is a hollow spherical shell formed-of conductive metal.
- 3. (Currently Amended) The antenna according to claim 2, wherein the spherical shell is formed-withincludes a slit substantially parallel to an axial direction of the conductive rod.
- 4. (Currently Amended) The antenna according to claim $\frac{1}{2}$, wherein the spherical shell is a conductive layer that is formed on an outer circumferential surface of a support body formed of an insulating material.
- 5. (Currently Amended) The antenna according to claim 4, wherein the support body is a sphere of synthetic resin, on having a surface of on which a plated conductive layer is formed by plating disposed.
- 6. (Currently Amended) The antenna according to claim 4-or-5, wherein the conductive layer is formed with includes a slit substantially parallel to an axial direction of the conductive rod.
- 7. (Currently Amended) The antenna according to claim 1, wherein including a plurality of antenna elements are-fitted to the conductive rod.

- 8. (Currently Amended) The antenna according to claim 1-or-7, wherein including an insulating bushing-is fitted at a substantially central portion of the conductive circular plate, and-wherein the conductive rod is provided-upright in a central opening of the insulating bushing.
- 9. (Currently Amended) The antenna according to claim 1-or-7, wherein including a eonnecter connector sleeve is-linked or fitted on a surface of the conductive circular plate on a side opposite to a surface thereof of the conductive circular plate on which the conductive rod is provided upright located, wherein the connector sleeve is serowed with connected to a connector of a coaxial cable, wherein a core wire of the coaxial cable is connected to the conductive rod, while and a shield wire thereof of the coatial cable is connected to the conductive circular plate.
- 10. (Currently Amended) The antenna according to claim 1-or-7, wherein the antenna element is slidably fitted toon the conductive rod, and wherein aso that distance from the conductive circular plate to the antenna element can be changed.
- 11. (Currently Amended) An antenna comprising a reflecting plate formed inhaving a parabolic shape and a primary radiator fitted to at a focus of the reflecting plate, wherein the primary radiator comprises:

<u>anthe</u> antenna element that is formed in the having a substantially spherical shape; the a conductive rod that penetrates through the antenna element and that is electrically <u>eonducted connected</u> to the antenna element; and

<u>athe</u> conductive circular plate that is disposed on a base end side of the conductive rod so as to be, substantially orthogonal to the conductive rod.

12. (Currently Amended) An antenna comprising a dielectric lens and thea primary radiator fitted toat a focus of the dielectric lens, wherein the primary radiator comprises:

thean antenna element that is formed in the having a substantially spherical shape;

thea conductive rod that penetrates through the antenna element and that is electrically eonducted to the antenna element; and

<u>athe</u> conductive circular plate that is disposed on the base end side of the conductive rod so as to be, substantially orthogonal to the conductive rod.

13. (New) The antenna according to claim 5, wherein the conductive layer includes a slit substantially parallel to an axial direction of the conductive rod.

- 14. (New) The antenna according to claim 7, including an insulating bushing fitted at a substantially central portion of the conductive circular plate, wherein the conductive rod is upright in a central opening of the insulating bushing.
- 15. (New) The antenna according to claim7, including a connector sleeve linked or fitted on a surface of the conductive circular plate on a side opposite to a surface of the conductive circular plate on which the conductive rod is located, wherein the connector sleeve is connected to a connector of a coaxial cable, a core wire of the coaxial cable is connected to the conductive rod, and a shield wire of the coatial cable is connected to the conductive circular plate.
- 16. (New) The antenna according to claim 7, wherein the antenna element is slidably fitted on the conductive rod so that distance from the conductive circular plate to the antenna element can be changed.